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25X1

FY-66 Quarterly Report, No. 1

PAR 202

PAR 224

31 Aug 65

SUBJECT: PAR 202, Briefing Print Enlarger
PAR 224, 3X - 15X Fluid Gate Enlarger

TASK/PROBLEM

1. PAR 202: To design and build a prototype enlarger for exposing high-quality briefing prints in formats up to and including 20 x 24 inches in size. Magnification to be in the 10 - 60 diameter range. The enlarger will be able to produce both black-and-white and color prints. Change from one capability to the other should be made with a minimum of effort.

2. PAR 224: Develop and fabricate an enlarger having continuously variable magnification from 3X to 15X for 70mm negative gate size. Print sizes to range 40 x 40 inches on cut sheet stock.

DISCUSSION

3. All objective lens formula samples have been received.

4. Two objective focus barrel assemblies and one "general purpose" focus assembly have been received. These assemblies will permit testing of all seven of the objective lens formula samples.

5. The lamphouse and gate assembly have been assembled to the bread-board. It was found that damping of the gate closing action was required. Dampers have been designed, fabricated, and installed.

6. The electrical control system has been essentially completed, but has not been completely checked out since some connections (such as the lamp, filter assembly, limit switches) are yet to be made.

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7. Optical alignment of the enlarger has been started.

PLANNED ACTIVITY

8. In the next quarter, it is expected that:

a. The breadboard model will be assembled ready for photographic tests midway in the quarter.

b. Photographic tests and prints will be made on the model to test the image quality and convenience of use of the system.

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